

WHAT IS CLAIMED IS:

1. An image processing apparatus, comprising:  
a display unit;  
a condition setting unit by which a user sets a post-quantization condition;  
a partial decoding and decompression unit to partially decode and decompress  
coded data in accordance with the post-quantization condition set by the user using the  
condition setting unit, thereby reproducing image data the same as image data reproduced  
by decoding and decompressing the coded data after post-quantization processing in  
accordance with the post-quantization condition; and

an image data displaying unit to display on the display unit the image data  
reproduced by the partial decoding and decompression unit.

2. The image processing apparatus as claimed in claim 1, wherein the partial  
decoding and decompression unit comprises:

a decoder to conform to a compression coding algorithm applied to the coded data;  
and

a controller to control a decoding and decompression operation of the decoder in  
accordance with the post-quantization condition set by the user using the condition setting  
unit.

3. The image processing apparatus as claimed in claim 1, wherein the partial  
decoding and decompression unit comprises:

a decoder to conform to a compression coding algorithm applied to the coded data;  
and

a rewriting unit to rewrite header information of the coded data in accordance with  
the post-quantization condition set by the user using the condition setting unit.

4. The image processing apparatus as claimed in claim 1, wherein the partial

decoding and decompression unit comprises:

a decoder to conform to a compression coding algorithm applied to the coded data;  
and

a writing unit to write header information of the coded data in accordance with the post-quantization condition set by the user using the condition setting unit.

5. The image processing apparatus as claimed in claim 1, further comprising:

a post-quantization unit to perform post-quantization processing of the coded data according to an instruction by the user and in accordance with the post-quantization condition set by the user using the condition setting unit.

6. The image processing apparatus as claimed in claim 1, further comprising:

a condition saving unit to save a plurality of post-quantization conditions set by the user using the condition setting unit,

wherein one of the post-quantization conditions saved in the condition saving unit can be set as a post-quantization condition by the condition setting unit.

7. The image processing apparatus as claimed in claim 1, further comprising:

a condition saving unit to save a plurality of post-quantization conditions set by the user using the condition setting unit;

a condition selector by which the user selects one of the post-quantization conditions saved in the condition saving unit; and

a post-quantization unit to perform post-quantization processing of coded data in accordance with the post-quantization condition selected by the user using the condition selector.

8. The image processing apparatus as claimed in claim 6, further comprising:

an averaging unit to average the post-quantization conditions saved in the condition saving unit and the post-quantization condition set by the user using the condition setting

unit,

wherein an averaged post-quantization condition obtained by the averaging unit is saved in the condition saving unit.

9. The image processing apparatus as claimed in claim 7, further comprising:  
an averaging unit to average the post-quantization conditions saved in the condition saving unit and the post-quantization condition set by the user using the condition setting unit,  
wherein an averaged post-quantization condition obtained by the averaging unit is saved in the condition saving unit.

10. The image processing apparatus as claimed in claim 1, wherein a compression rate at the time of the post-quantization processing performed in accordance with the post-quantization condition set by the user using the condition setting unit is displayed on the display unit.

11. The image processing apparatus as claimed in claim 1, further comprising:  
an image modifying unit to enlarge, reduce, or scroll an image displayed on the display unit in accordance with an instruction of the user.

12. The image processing apparatus as claimed in claim 11, wherein a magnification of the image is displayed on the display unit.

13. The image processing apparatus as claimed in claim 1, further comprising:  
an imaging unit to photograph one of a still image and a moving image; and  
an encoder to generate coded data allowing post-quantization processing by performing compression coding on image data of the image photographed by the imaging unit.

14. The image processing apparatus as claimed in claim 1, further comprising:  
a communication unit to receive coded data from an external apparatus and  
transmit to the external apparatus the post-quantization condition set by the user using the  
condition setting unit.

15. The image processing apparatus as claimed in claim 1, wherein the post-  
quantization condition is related to at least one of resolution, position, component, image  
quality, and compression rate of an image.

16. The image processing apparatus as claimed in claim 1, wherein the coded data  
are JPEG 2000 coded data.

17. An image processing method, comprising:  
setting a post-quantization condition by a user;  
partially decoding and decompressing coded data in accordance with the post-  
quantization condition set by the user, thereby reproducing image data the same as image  
data reproduced by decoding and decompressing the coded data after post-quantization  
processing in accordance with the post-quantization condition; and  
displaying the image data reproduced by partially decoding and decompressing  
coded data.

18. The image processing method as claimed in claim 17, wherein partially  
decoding and decompressing the coded data comprises controlling a decoding and  
decompression operation of a decoder that conforms to a compression coding algorithm  
applied to the coded data in accordance with the post-quantization condition set in setting  
the post-quantization condition.

19. The image processing method as claimed in claim 17, wherein partially  
decoding and decompressing the coded data comprises causing a decoder that conforms to

a compression coding algorithm applied to the coded data to decode and decompress the coded data whose header information is rewritten in accordance with the post-quantization condition set in setting the post-quantization condition.

20. The image processing method as claimed in claim 17, wherein partially decoding and decompressing the coded data comprises causing a decoder that conforms to a compression coding algorithm applied to the coded data to decode and decompress the coded data whose header information is written in accordance with the post-quantization condition set in setting the post-quantization condition.

21. The image processing method as claimed in claim 17, further comprising:  
performing post-quantization processing of coded data according to an instruction by the user and in accordance with the post-quantization condition set in setting the post-quantization condition.

22. The image processing method as claimed in claim 17, further comprising:  
saving one or more post-quantization conditions set in setting the post-quantization condition;  
selecting, by the user, one of the post-quantization conditions saved in saving the post-quantization conditions; and  
performing post-quantization processing of the coded data in accordance with the post-quantization condition selected in selecting the post-quantization condition.

23. The image processing method as claimed in claim 17, further comprising:  
receiving coded data from an apparatus; and  
transmitting to the apparatus the post-quantization condition set in setting the post-quantization condition.

24. An article of manufacture having one or more computer-readable recording

medium storing thereon instructions which, when executed by a computer, cause the computer to carry out an imaging process by:

causing the computer to prompt a user to set a post-quantization condition;

causing the computer to partially decode and decompress coded data in accordance with the post-quantization condition set by the user, thereby causing the computer to reproduce image data the same as image data reproduced by decoding and decompressing the coded data after post-quantization processing in accordance with the post-quantization condition; and

causing the computer to display the image data reproduced in response to the instruction of causing the computer to partially decode and decompress the coded data.

25. The article of manufacture as claimed in claim 24, wherein causing the computer to partially decode and decompress the coded data comprises controlling a decoding and decompression operation of a decoder that conforms to a compression coding algorithm applied to the coded data in accordance with the post-quantization condition set by the user.

26. The article of manufacture as claimed in claim 24, wherein causing the computer to partially decode and decompress the coded data comprises causing a decoder that conforms to a compression coding algorithm applied to the coded data to decode and decompress the coded data whose header information is rewritten in accordance with the post-quantization condition set by the user.

27. The article of manufacture as claimed in claim 24, wherein causing the computer to partially decode and decompress the coded data comprises causing a decoder that conforms to a compression coding algorithm applied to the coded data to decode and decompress the coded data whose header information is written in accordance with the post-quantization condition set by the user.

28. The article of manufacture as claimed in claim 24, wherein the image process further comprises:

causing the computer to perform post-quantization processing of coded data according to an instruction by the user and in accordance with the post-quantization condition set by the user.

29. The article of manufacture as claimed in claim 24, wherein the image process further comprises:

causing the computer to save one or more post-quantization conditions set by the user;

causing the computer to prompt the user to select one of the post-quantization conditions saved in the instruction of causing the computer to save the post-quantization conditions; and

causing the computer to perform post-quantization processing of the coded data in accordance with the post-quantization condition selected by the user.

30. The article of manufacture as claimed in claim 24, wherein the image process further comprises:

causing the computer to receive coded data from an apparatus; and

causing the computer to transmit to the apparatus the post-quantization condition set by the user.